

**WHAT IS CLAIMED IS:**

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1. A vacuum fluorescent display comprising:  
a pair of substrates spaced apart from each other with a predetermined distance, the substrates forming a vacuum cell by interposing a side glass;  
5 filaments mounted within the vacuum cell to emit thermal electrons under the application of voltage;  
anode electrodes formed at one of the substrates, each anode electrode unit having a conductive layer and a phosphor layer formed on the conductive layer; and  
10 a control electrode surrounding the anode electrode to accelerate or intercept the thermal electrons emitted from the filaments;  
wherein the control electrode is formed with a single-layered structure.
  2. The vacuum fluorescent display of claim 1 wherein the control electrode is formed with a metallic material having a high electrical conductivity.
  - 15 3. The vacuum fluorescent display of claim 2 wherein the control electrode is formed with a metallic material selected from the group consisting of stainless steel, platinum, silver and copper.
  4. The vacuum fluorescent display of claim 1 wherein the anode electrode unit is formed with a plurality of segments, and the control electrode  
20 surrounds each segment of the anode electrode unit.
  5. The vacuum fluorescent display of claim 4 wherein the control electrode is formed in a body or in a separate manner.
  6. The vacuum fluorescent display of claim 5 wherein the control

electrode comprises a main control part for accelerating and intercepting the thermal electrons, and a subsidiary control part for assisting the main control part in controlling the thermal electrons.

7. The vacuum fluorescent display of claim 6 wherein the main control part surrounds each segment of the anode electrode, and the subsidiary control part is formed at a top end portion of the main control unit in a body.

8. The vacuum fluorescent display of claim 7 wherein the subsidiary control part is formed with an extension where the top end portion of the main control unit is extended toward each segment of the anode electrode perpendicular to the main control member.

9. The vacuum fluorescent display of claim 7 wherein the subsidiary control part is formed with a connector, the connector interconnecting top ends of the main control part such that the connector crosses each segment of the anode electrode.

10. The vacuum fluorescent display of claim 5 further comprising a subsidiary control electrode surrounding one or more of the control electrode units.

11. The vacuum fluorescent display of claim 10 wherein the subsidiary control electrode is formed with a mesh grid.

12. The vacuum fluorescent display of claim 10 wherein only one of the control electrode and the subsidiary control electrode is provided at some of the anode electrodes.

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